# Atari 400 and Atari 800 Home Computers



The Atari 800 shown here consists of a 16KB RAM, cassette program recorder, 40-cps 4-inchroll printer, 51/einch 88KB minidiskette drive, and a user-supplied color TV set or monitor. Programs can be loadyd either via plug-in ROM cartridges, cassette tapes, or diskettes. The 800 is programmable in Basic or Assembly language.

## **BACKGROUND INFORMATION**

Atari Inc., Home Computer Division, a Warner Communications Company, 1312 Crossman, P.O. Box 61657, Sunnyvale, CA 94086. Telephone (408) 942-6500.

When Atari entered the home computer marketplace in 1979, it came as no great surprise to the industry. With revenues of about \$200 million per year and a highly successful track record in manufacturing and marketing high technology consumer electronic games, it was natural for Atari to turn its attention to personal computers.

Atari sells two home computers: the Atari 400 and Atari 800. The Atari 400 is a limited size (16K bytes), low-end system intended for home use. The Atari 800 has more RAM capacity and is capable of handling small business and professional applications, as well as sophisticated home processing applications.

In addition to relying on its strong distribution network, Atari stresses that a major selling point of the Atari 400 and Atari 800 systems is the use of plug-in ROM cartridges. These cartridges provide low-cost, easy-to-use program availability.

### SYSTEM CHARACTERISTICS

The Atari computers are compact units consisting of a keyboard chassis which holds the plug-in ROM and provides a serial I/O port for external peripherals and four controller jacks for joystick and paddle controllers. Four independent sound synthesizers are incorporated into the console to provide sound effects through a TV set.

Current models: Alari 400; Alari 800. Memory: 16KB-4BKB RAM, Storage capacity: 88KB-352KB diskettas. Workstations; one.

Base list price: Alari 400—\$299 including processor, 16K8 RAM, keyboard, built-in RF modulator, internal speeker Alari 800—\$899 including same as Atari 400 plus Basic cartridge, different keyboard, monitor jack. Typical list prices: Alari 400(student)—\$465 including same as base configuration plus educator krt. Alari 800—\$1,675 including processor 48KB RAM, disk drive, B0 column printer, interfaca module, cables Popular options: from Alari—joystick, paddles, print-

ers, diskette driva, edd on memory, modems, from independents—home controller, graphic I/O tablet, plotter.

Principal programming languages: Basic, Assembly, Pilot.

Principal applications software: home office, music, education, statistics, games.

First shipment: 1979.

Number instelled to dete: information not evailable. Aveilable through: about 2100 direct and indirect vendors, computer deelers and electronics specialty shops, Saars Roebuck and Penney's.

Each system contains an RF modulator which enables it to connect to any TV. Text is displayed in three modes and graphics in nine modes. The keyboard provides 57 alphanumeric keys plus four special function keys.

The differences between the two systems are as follows: 1) RAM capacity: 16K bytes on the Atari 400, 16K bytes expandable to 48K bytes on the Atari 800: 2) keyboard: monopanel, touch sensitive on the Atari 400, regular typewriter-style on the Atari 800: 3) a jack on the Atari 800 enabling the system to be used with a monitor instead of a TV if desired; 4) ROM eartridge slots: one on the Atari 400, two on the Atari 800.

The Atari 400 is capable of attaching game controls, a cassette recorder, and a 40-column printer as external peripherals in addition to a TV set display. An acoustic modem with an interface module is also available.

The Atan 800 can use all of the Atari controllers and peripherals as well as support all of the Atan 400's programs. Additionally, up to four 88K byte diskette drives can be attached to the Atan 800. The Atan 800 can utilize 40 or 100 cps printers, as well as support several software packages not available for the Atan 400.

Atari offers Starter Kits which contain all the materials needed to use the computer for entertainment, education, communications and programming. Additionally, two other kits, The Bookkeeper and The Home Menager, are available, but only for the Atari 800.



# Atari 400 and Atari 800 Home Computers

## HARDWARE/PACKAGING

PROCESSOR/MEMORY

Model: 6502; 8 bits

RAM: Atari 400-16KB; Atari 800-16KB-48KB

ROM: Atarl 400-10KB internal, 2KB-16KB cartridge, Alati 800-

10KB internal, 2KB-16KB cartridge

Processor options; additional BKB RAM (\$49,95); 16KB RAM

(599.95)

DISPLAY

Model: color or B/W TV set (or monitor with Atari 800)

Screen wire any sire

Chars./scteen: 960 (40 chars. x 24 lines); 480 (20 chars. x 24 lines); 240 (20 chars. x 12 lines)

Char. type: upper/lower case; 8 x 8 matris

Features: normal, inverse, pallet of 256 colors of whileh 128 may

be displayed simultaneously

Graphics: nine modes, from 40 a 24 up to 320 s 192

interface; integral cable plug; RF modulator included

Type: Atari 400-typewriter style, imm-tactile, fixed; Atati 800-typewriter style, tactile, fixed; optional numeric keypad [\$124,95]

No. of keys: 57, ASCII cliaracter set

Interface: Integral connection

DIRECT ACCESS STORAGE

Model: Atarl 810 Disk Drive

Type: 5%" risini diskette Capacity/drive: 88KB

Drives/system: 1-4

Avg. access time: 74 milliseconds

Transfer rate: 19.2KBS

Interface: I port Price: \$599,95 with controller

PRINTFR	e.

Model:	820	822	<u>825</u>
Type:	matrix, impact	matrix, thermal	matrix, impact
Papet;	piain paper, roli, 4"	thermal, roll, 4"	fanfold, tractor, 9.5" single sheets
Char. set:	96	96	96
Chars./line:	40	40	80
Speed:	40 cps	37 cps	100 cps
Interface:	serial	serial	Interface Module
Price:	5299.95	\$299.95	5799.95

DATA COMMUNICATIONS Model: Atarl 830 Acoustic Modem Trans, mode: half/full-duplex Protocol: asynchronous Lines; one Speed: 300 bps Interface: Interface module

Price: \$199.95

OTHER I/O

Magnetic tape: Atari 410 Program Recorder, (\$99,95) Game controls: 2 handheld paddles (\$21.95), 2 joysticks (\$21.95) Loudspeaker: built-in; 4-channel audio channel through TV set

Interface module: (\$219.95) 1/O ELECTRONICS

Structure: 4 controller input jacks; Atari 400-1 external and 1 internal cartridge slot, Atarl 800-2 external and 3 internal

cartridge sints, I high speed serial I/O port, can connect Model 850 Interface Module to provide 4 RS-232 serial ports and I parallel

#### SOFTWARE

LANGU'AGES

Basic: Atari Basic IROM carridge—\$59.95; included with Atari 800); Microsoft Basic (diskette—\$89.95) Assembler: Assembler Editor (ROM carridge—\$59.95); Macro

Assembler and Prugram Text Editor (diskette-\$89.95)

PHOT (with turile graphics): home package (\$79.95); educator's

package [\$129.95]

**OPERATING SYSTEM** 

Name: Atari Operating System
System requirements: 10KB ROM (included with system)

Concurrent tasks: one

Other functions: 1/O device handling, keyboard and screen editing

UTILITIES

Sort: nu

Tent editor: no

DATABASE MANAGEMENT SYSTEMS

Name: raine specified

COMMUNICATIONS SUPPORT

Name: Telel.litk 1 (529.95)

System requirements: modem and interface module

Functions: allows access to databases and communications with

other type of computers

APPLICATIONS PROGRAMS

Accounting: The Bookkeeper (\$149.95) Education: Energy Czar, Hangman, Kingdom, States & Capitals, European Countries and Capitals; Invitation to Programming

(\$24,95-\$29,95), Biorlythm (\$14,95), Conversational French, German, Spanish and Italian (\$59,95 each), Music Composer (\$59,95), Touch Typing (\$24,95) Entertainment: ROM cartridges (\$34,95-\$54,95); Basketball,

Computer Chess, Star Ruiders, Super Breakout, 3-D Tic-Tac-Toe, Videu Easel; Space Invaders, Asteroids, Missile Command,

Pac-Man, Centipede; Cassettes: Blackjack (\$14.95)

Finance: Bond Analysis (\$24.95), Duw Jones Investment Evaluallon (\$129.95); Graph It (\$19.95), Mortgage & Loan Analysis

(\$19.95), Stock Analysis (\$24.95), Stock Charting (\$29.95)

Math/Statistics: Statistics (\$19.95) Word Processing: Atari Word Processor (\$149.95)

Others: Home Filing Manager (\$49.95)

## SUPPORT SERVICES

**DOCUMENTATION** 

Range: about 14 manuals available (\$3.95 to \$29.95)

Training & education: none from Atari; available at discretion of dealer

Maintenance: available through more than 200 factory-authorized

service centers

TERMS AND CONDITIONS

Lease terms: none

Discounts: none officially; available at retail level; some dealers and

mail-order houses will offer up to 15% off list

Warranties: 90-days-parts and labor

Software terms: none specified D